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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-55, (cancelled).

Claim 56. (currently amended): The lipid according to Claim 55, wherein said A lipid is-represented by formula (2a):

$$[TM]_{u}$$
- $(L^{4})_{v}[R^{7}]_{p}$ - $(L^{3})_{q}$ - $[R^{6}]_{m}$ - $(L^{1})_{n}$ - $[-C(R^{2})(R^{3})(R^{4})]$ (2a)

wherein:

TM is an antibody or an antigen binding fragment or derivative thereof,

-u is an integer 1 or 2,

 $-L^4$ is $-(Alk^1)_t(X^1)_s(Alk^2)_t$ -.

wherein X¹ is an -0- atom; a -S- atom; -C(0)-; -C(0)0-; -C(S)-; -S(0); -S(0)2-; -N(R⁵)-; -C(N(R⁵)-; -OC(0)N(R⁵)-; -N(R⁵)-; -N(R⁵)CO-; N(R⁵)C(0)O-; -N(R⁵)CS-; -S(0)N(R⁵)-; -N(R⁵)S(0)2-; -N(R⁵)S(0)2-; -N(R⁵)CON(R⁵)-; -N(R⁵)SO₂N(R⁵)-; -N(R⁵)SO

wherein R⁵ is a hydrogen atom, a straight or branched alkyl group or an -Alk¹X¹- chain;

wherein in any of the groups containing two R⁵ substituents each R⁵ may be the same or

different:

wherein Alk¹ and Alk², which may be the same or different, is each an optionally substituted straight or branched C₁₋₁₀alkylene, C₂₋₁₀alkenylene or C₂₋₁₀alkynylene chain optionally interrupted or terminated by at least one carbocyclic or heterocarbocyclic groups and/or heteroatoms or heteroatom containing groups X¹; and

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r, s, and t, which may be the same or different, is each zero or the integer 1, provided that when one of r, s or t is zero, at least one of the remainder is the integer 1,...

-v is zero or the integer 1,

 $-L^{1}$ is $-X^{1}Alk^{2}$ - or $-[X^{1}]_{2}Alk^{1}X^{1}Alk^{2}$ -,

 $\label{eq:wherein X' is an -0- atom; a -S- atom; -C(0)-; -C(0)0-; -C(S)-; -S(0); -S(0)_2-; -N(R^5)-; -CON(R^5)-; -OC(0)N(R^5)-; -CSN(R^5)-; -N(R^5)CO-; N(R^5)C(0)0-; -N(R^5)CS-; -S(0)N(R^5)-; -CON(R^5)-; -N(R^5)CO-; N(R^5)C(0)0-; -N(R^5)CS-; -S(0)N(R^5)-; -N(R^5)CO-; -N(R^5)C(0)0-; -N(R^5)CS-; -N(R^5)CO-; -N(R^5)C(0)0-; -N(R^5)CS-; -N(R^5)CO-; -N(R^5$

-S(0)₂N(R⁵)-; -N(R⁵)S(0)-; -N(R⁵)S(0)₂-; -N(R⁵)CON(R⁵)-; or -N(R⁵)SO₂N(R⁵)-;
wherein R⁵ is a hydrogen atom, a straight or branched alkyl group or an -Alk¹X¹- chain,

wherein in any of the groups containing two R⁵ substituents each R⁵ may be the same or different;

wherein Alk¹ and Alk², which may be the same or different, is each an optionally substituted straight or branched C_{1-6} alkylene, C_{2-6} alkenylene or C_{2-6} alkynylene chain optionally interrupted or terminated by at least one carbocyclic or heterocarbocyclic groups and/or heteroatoms or heteroatom containing groups X^1 .

-m is an integer of from 1 to 6,

-and-n is zero or the integer 1-are as defined for formula (2);

R⁷ is a hydrophilic hydrocarbon containing at least two atoms or groups capable of being solvated by water;

p is an integer of from 1 to 6;

 L^3 is a linker atom or group- X^1 -, $-X^1Alk^1X^1$ - or $[X^1Alk^1]_1X^1Alk^2X^1$,

 $\underline{\text{wherein } X^{\text{l}} \text{ is an -0- atom; a -S- atom; -C(0)-; -C(0)0-; -C(S)-; -S(0); -S(0)\underline{, -S(0)2-; -N(R^5)-; -S(0)2-; -S($

-CON(R⁵)-; -OC(0)N(R⁵)-; -CSN(R⁵)-; -N(R⁵)CO-; N(R⁵)C(0)0-; -N(R⁵)CS-; -S(0)N(R⁵)-; -S(0)+N(R⁵)-; -N(R⁵)S(0)-; -N(R⁵)S(0)-; -N(R⁵)CON(R⁵)-; or -N(R⁵)S0:N(R⁵)- group;

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wherein R⁵ is a hydrogen atom, a straight or branched alkyl group or an -Alk¹X¹- chain;

wherein in any of the groups containing two R⁵ substituents each R⁵ may be the same or

different;

wherein Alk¹ and Alk², which may be the same or different, is each an optionally substituted straight or branched C₁₋₆alkylene, C₂₋₆alkenylene or C₂₋₆alkynylene chain optionally interrupted or terminated by at least one carbocyclic or heteroarbocyclic groups and/or heteroatoms or heteroatom containing groups X¹;

q is zero or an integer of from 1 to 6;

R⁶ is a hydrocarbon chain;

R² is a hydrogen atom or an optionally substituted aliphatic, cycloaliphatic, heteroaliphatic, heterocycloaliphatic, aromatic or heteroaromatic group optionally containing one or more cationic centers; and

R³ and R⁴, which may be the same or different, is each an optionally substituted aliphatic, cycloaliphatic, heteroaliphatic, heterocycloaliphatic, aromatic or heteroaromatic group containing one of more cationic centers or R³ and R⁴ together with the carbon atom to which they are attached form a cycloaliphatic, heterocycloaliphatic, aromatic or heteroaromatic group containing two or more cationic centers.

Claim 57. (canceled).

Claim 58. (previously presented): The lipid according to Claim 56, wherein u is the integer 1.

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Claim 59. (currently amended): The lipid according to Claim 56, wherein:

v is the integer 1; and

 L^4 -is- $(Alk^+)_t(X^+)_s(Alk^2)_t$ -,

 $\begin{aligned} & \text{wherein $X^$+ is an - 0 - atom; a - S - atom; $-C(0)$; $-C(0)0$; $-C(8)$; $-S(0); $-S(0)_2$; $N(R^5)$; } \\ & \text{CON($R^5)$; $-OC(0)N(R^5)$; $-CSN(R^5)$; $-N(R^5)CO$; $N(R^5)C(0)O$; $-N(R^5)CS$; $-S(0)N(R^5)$; } \\ & -S(0)_2N(R^5)$; $-N(R^5)S(0)_2$; $N(R^5)CON(R^5)$; $or -N(R^5)SO_2N(R^5)$; } \end{aligned}$

wherein R^{δ} is a hydrogen atom, a straight or branched alkyl group or an $Alk^{\dagger}X^{\dagger}$ chain; wherein in any of the groups containing two R^{δ} substituents each R^{δ} may be the same or different;

wherein Alk¹ and Alk², which may be the same or different, is each an optionally substituted straight or branched C₁₋₁₀alkylene, C₂₋₁₀alkenylene or C₂₋₁₀alkynylene chain optionally interrupted or terminated by at least one earboeyelie or heteroearboeyelie groups and/or heteroatoms or heteroatom containing groups X¹; and

r, s, and t, which may be the same or different, is each zero or the integer 1, provided that
when one of r, s or t is zero, at least one of the remainder is the integer 1.

- Claim 60. (currently amended): The lipid according to Claim $59\underline{56}$, wherein L^4 is an -NHCO(Alk²)_r- group.
- Claim 61. (previously presented): The lipid according to Claim 56, wherein R^2 is a hydrogen atom; and R^3 and R^4 are each $Sp^1[WSp^2]_bWSp^3$ or $-Sp^1[WSp^2]_bWH$, wherein Sp^1 , Sp^2 and Sp^3 , which may be the same or different, is each a spacer group, W is a cationic center and b is zero or an integer from 1 to 6.

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Claim 62. (previously presented): The lipid according to Claim 61, wherein $\mathrm{Sp}^1, \mathrm{Sp}^2$ and Sp^3 is each an optionally substituted aliphatic, cycloaliphatic, heteroaliphatic, heteroeycloaliphatic, aromatic or heteroaromatic group.

Claim 63. (previously presented): The lipid according to Claim 62, wherein Sp¹, Sp² and Sp³ is each an optionally substituted C₁₋₆alkylene chain.

Claim 64. (previously presented): The lipid according to Claim 61, wherein W is a -NH- group.

Claim 65. (previously presented) The lipid according to Claim 61, wherein b is an integer of from 1 to 3.

Claim 66. (previously presented): The lipid according to Claim 56, wherein $-C(R^2)(R^3)(R^4) \text{ is } -CH[Sp^1NHSp^2NH_2]_2, -CH[Sp^1NHSp^2NHSp^2NH_2]_2 \text{ or } \\ -CH[Sp^1NHSp^2NHSp^2NHCH_3]_2, \text{ wherein } Sp^1 \text{ is } -CH_2\text{- and each } Sp^2 \text{ is } -(CH_2)_3\text{- or } -(CH_2)_4\text{-}.$

Claim 67. (previously presented): The lipid according to Claim 56, wherein n in $-(L^l)_{n^-} \text{ is the integer 1}.$

Claim 68. (canceled).

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Claim 69. (currently amended): The lipid according to Claim $68\underline{67}$, wherein X^1 is a -CONH- group, Alk¹ is a -CH₂-CH₂ chain and Alk² is a -(CH₂)₄- chain, -(CH₂)₅- chain or - (CH₂)₆- chain.

Claim 70. (previously presented): The lipid according to Claim 56, wherein m is an integer 1 or 2.

Claim 71. (previously presented): The lipid according to Claim 56, wherein R^6 is an optionally substituted C_{10-60} aliphatic chain.

Claim 72. (previously presented): The lipid according to Claim 71, wherein \mathbb{R}^6 is a linear, optionally substituted $\mathbb{C}_{16\cdot38}$ alkylene chain.

Claim 73. (previously presented): The lipid according to Claim 56, wherein q is the integer 1 and p is the integer 1 or 2.

Claim 74. (canceled).

 $\label{eq:Claim 75.} Claim 75. \qquad \text{(currently amended): The lipid according to Claim 7456, wherein L^3 is a -NHC0-, -CONH-, -CONH(CH2)2NHCO-, or -[CONH(CH2)2-]2NCO(CH2)2CONH group.}$

Claim 76. (previously presented): The lipid according to Claim 56, wherein R⁷ is a synthetic or naturally occurring polyol or a poly(alkylene oxide) or a derivative thereof.

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Claim 77. (previously presented): The lipid according to Claim 76, wherein \mathbb{R}^7 is a poly(alkylene oxide) or a derivative thereof.

Claim 78. (previously presented): The lipid according to Claim 77, wherein \mathbb{R}^7 is a poly(ethylene oxide).

Claim 79. (previously presented): The lipid according to Claim 59, wherein \mathbb{R}^5 is a methyl or ethyl group.

Claim 80. (currently amended): The lipid according to Claim $68\underline{67}$, wherein R^5 is a methyl or ethyl group.

Claim 81. (currently amended): The lipid according to Claim $74\underline{56}$, wherein R^5 is a methyl or ethyl group.